

ABSTRACT OF THE DISCLOSURE

Multiplexed determinations of large numbers of events are achieved in an accurate and simple manner by using a combination of different oligonucleotides, which serve for both capture and release from a support and strand displacement oligonucleotides for sequential release of groups of oligonucleotides. Also included, as part of the oligonucleotide reagents may be identifiers, which serve to identify a particular characteristic. The method is illustrated using primers for initiation of chain extension joined to or serving as the capture/release sequence, where the extended primer has an identifier. After extending the primer, the extended primers are captured and independently released and the released extended primers assayed. The subject method finds application for nucleic acid sequence determinations, single nucleotide polymorphism determinations, identification of nucleic acid fragments, and the like.

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